



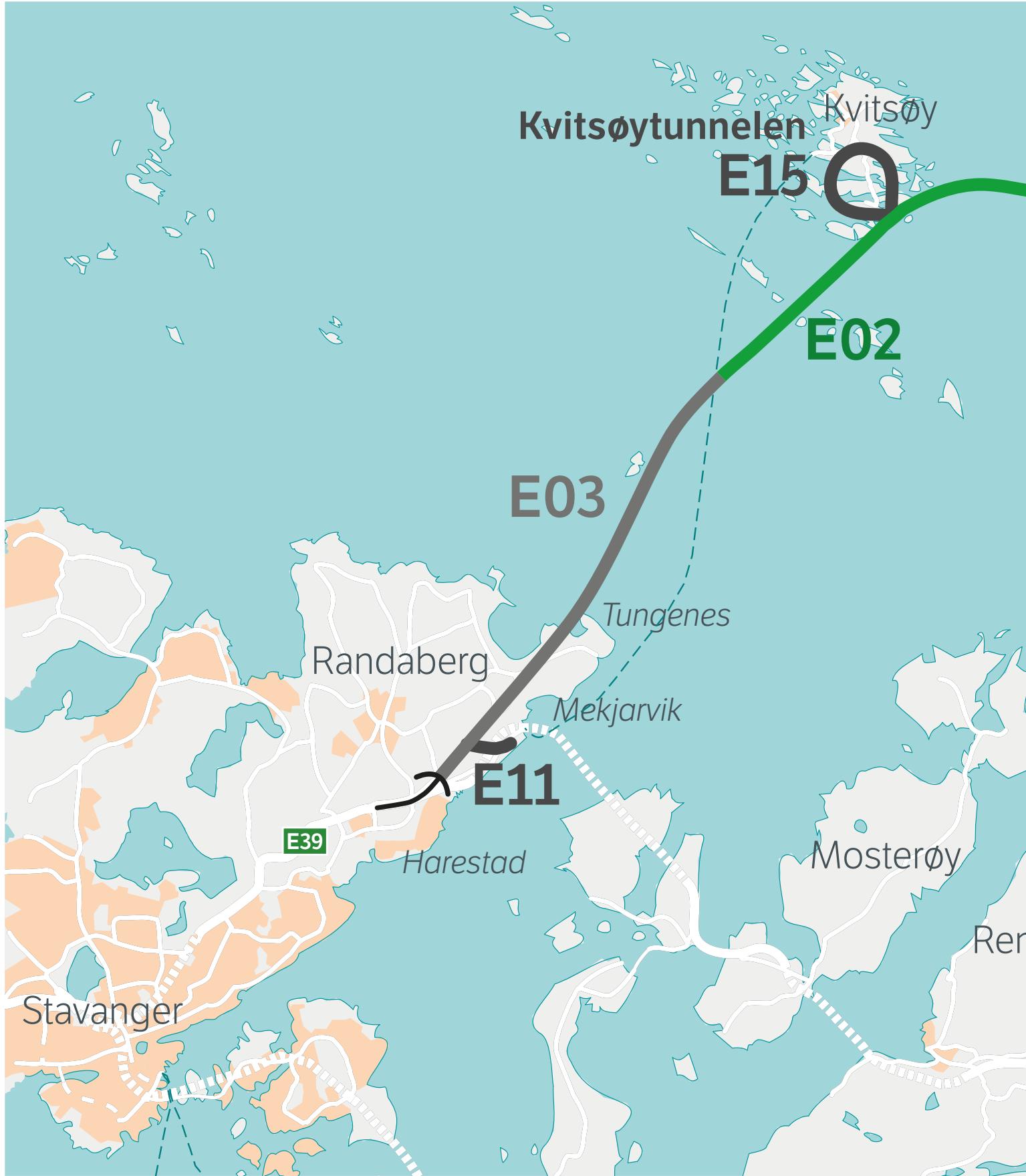
**Statens vegvesen**  
Norwegian Public Roads  
Administration

# Rogfast

## The world's longest and deepest under sea road tunnel



- World's longest undersea road tunnel at 26.7 km
- First prosjekt under the 'ferry-free' E39 concept
- Replacing the present day ferry over Boknafjord
- Deepest point at 390 m under sea
- Total cost 22 billion NOK
- Tunnel profile 2 x T10.5
- Dual tunnel, 4 lanes, maximum incline 5 %
- 4 km long tunnel up to Kvitsøy, maximum incline 7 %
- 8.5 million cubic metres excavated rock for landfill



#### Three large tunnel contracts

- Enterprise 'E02' from Kvitsøy totalling around 21 km tunnel – 2 ventilation shafts 10 m diameter, 250 m deep/ high. Contract advertisement spring 2023.
- Enterprise 'E03' – 16 km tunnel from Harestad to half way between Tungenes and Kvitsøy. Contract negotiation are in progress.
- Enterprise 'E04' 19 km tunnel from Bokn + 1.5 km local road network. Contract negotiation are in progress.

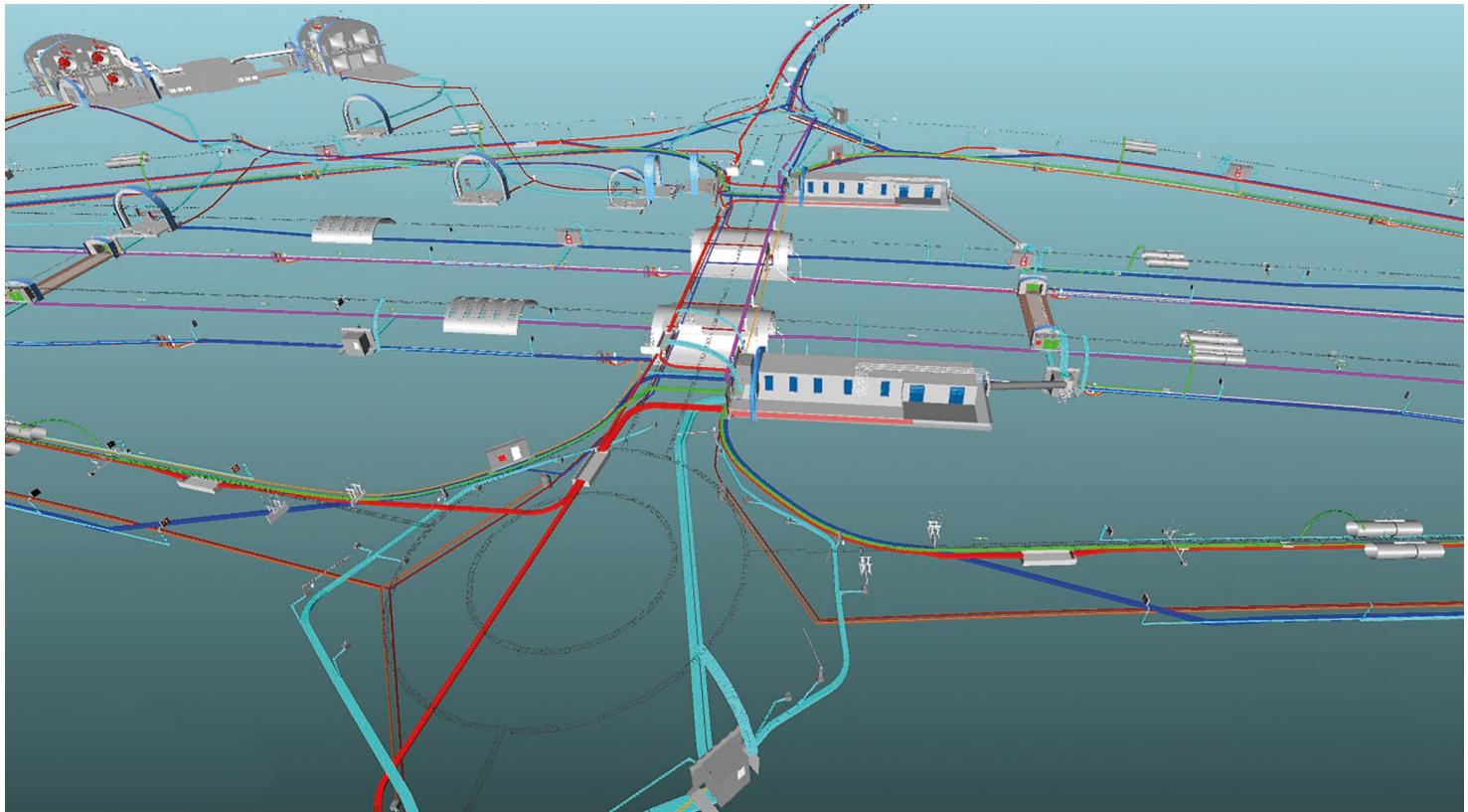
#### Three smaller contracts

- Enterprise 'E011' – transportation tunnel Mekjarvik 700 m. Project is finished and closed.
- Enterprise 'E013' – transportation/ventilation tunnels Arsvågen 4 km. Project is finished and closed.
- Enterprise 'E015' – 3,5 km long meter tunnel from Kvitsøy down to the main runs, and 2 kilometers of local road. The contract has been awarded.



## Challenges

- Long tunnel interfaces.
- Geologically challenging.
- High water pressure and complex leakage prevention ‘injection’.
- Safeguard zones of poor rock.
- Large seafillings in exposed stretches of coastline.
- Take consideration to, and safeguard the environment.
- Longitudinal ventilation with three ‘airing’ shafts.

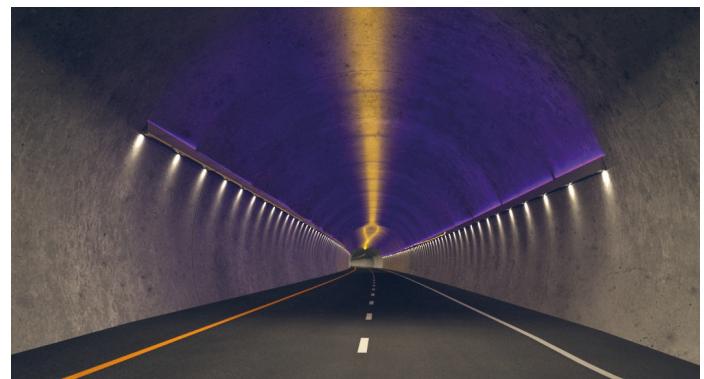


## ROGFAST project technical installation

- 46** Technical buildings.
- 17** Pump stations.
- 49** Electrical substations/transformer rooms.
- 480** Emergency call booths.
- 245** Impulse ventilators (tunnel ventilators)
- 8** Shaft ventilators at Kvitsøy, total 2000kw.
  - 250kw pr ventilator.
  - Shaft area 4.5m x 4.5m.
- 1** Ventilatlon hall 60m x 19m x 14m.



*Contract advertisement 2026/27*



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